

User guide

1. Usage
 - lsm-df
 - lsm-get
 - lsm-put
2. Known errors

Usage

lsm-df

setup environment

```
$ source /afs/usatlas.bnl.gov/i386_redhat72/opt/lsm/setup.sh
```

usage

```
usage: lsm-df [options] endpoint

options:
  --version          show program's version number and exit
  -h, --help        show this help message and exit
  -t TOKEN, --token=TOKEN
                    space token where to retrieve the files from (not
                    useful)
  --configuration-file=CONFIGURATION_FILE
                    location where the lsm.cfg resides (default is
                    $LSM_HOME/lsm.cfg followed by /opt/gov.bnl/lsm.cfg)
  --logging-level=LOGGING_LEVEL
                    logging level (default=20) : 10=DEBUG 20=INFO
                    30=WARNING 40=ERROR
  --silent          disable alarms
  --unit-test       retrieve the command that will be used
```

examples

```
$ lsm-df
10485760
```

lsm-get

setup environment

```
$ source /afs/usatlas.bnl.gov/i386_redhat72/opt/lsm/setup.sh
```

usage

```
usage: lsm-get [options] source destination

options:
  --version          show program's version number and exit
  -h, --help        show this help message and exit
  -c CHECKSUM, --checksum=CHECKSUM
                    the checksum of the file to be copied. this value may
                    have a prefix specifying the checksum type followed by
                    the value, e.g. "adler32:NNN" or "md5:NNN". If there is
                    no prefix it is assumed to be an MD5 checksum.
  --guid=GUID       the global unique identifier (guid) of the file to be
                    copied
  -s SIZE, --size=SIZE
                    the size in bytes of the file to be copied
  -t TOKEN, --token=TOKEN
                    space token where to retrieve the files from (not
                    useful)
  --configuration-file=CONFIGURATION_FILE
                    location where the lsm.cfg resides (default is
                    $LSM_HOME/lsm.cfg followed by /opt/gov.bnl/lsm.cfg)
  --enable-pcache   enables pcache.
  --logging-level=LOGGING_LEVEL
                    logging level (default=20) : 10=DEBUG 20=INFO
                    30=WARNING 40=ERROR
  --silent          disable alarms
  --unit-test       retrieve the command that will be used
  --disable-pnfsid  disable attempts for file to pnfsid translation.
  --disable-f5      disable usage of F5 dcap alias when using pnfsid.
```

examples

```
$ lsm-get srm://dcsrm.usatlas.bnl.gov/pnfs/usatlas.bnl.gov/data2/psalgado/ESD.000001._000001.pool.root.1 /tmp/gov.bnl.lsm.pilot.test
223345410 bytes in 6 seconds (36351.79 KB/sec)
```

```
$ lsm-get --size=223345410 srm://dcsrm.usatlas.bnl.gov/pnfs/usatlas.bnl.gov/data2/psalgado/ESD.000001._000001.pool.root.1 /tmp/gov.bnl.lsm.pilot.test
223345410 bytes in 6 seconds (36351.79 KB/sec)
```

```
$ lsm-get --size=223345410 --checksum=adler32:122c574d
srm://dcsrm.usatlas.bnl.gov/pnfs/usatlas.bnl.gov/data2/psalgado/ESD.000001._000001.pool.root.1 /tmp/gov.bnl.lsm.pilot.test
223345410 bytes in 6 seconds (36351.79 KB/sec)
```

lsm-put

setup environment

```
$ source /afs/usatlas.bnl.gov/i386_redhat72/opt/lsm/setup.sh
```

usage

```
usage: lsm-put [options] source destination
```

options:

```
--version          show program's version number and exit
-h, --help        show this help message and exit
-c CHECKSUM, --checksum=CHECKSUM
                  the checksum of the file to be copied. this value may
                  have a prefix specifying the checksum type followed by
                  the value, e.g. "adler32:NNN" or "md5:NNN".If there is
                  no prefix it is assumed to be an MD5 checksum.
--guid=GUID       the global unique identifier (guid) of the file to be
                  copied
-s SIZE, --size=SIZE the size in bytes of the file to be copied
-t TOKEN, --token=TOKEN
                  space token where to retrieve the files from (not
                  useful)
--configuration-file=CONFIGURATION_FILE
                  location where the lsm.cfg resides (default is
                  $LSM_HOME/lsm.cfg followed by /opt/gov.bnl/lsm.cfg)
--disable-f5      disable usage of F5 gsidcap alias.
--logging-level=LOGGING_LEVEL
                  logging level (default=20) : 10=DEBUG 20=INFO
                  30=WARNING 40=ERROR
--silent          disable alarms
--unit-test       retrieve the command that will be used
```

examples

```
$ lsm-put -t ATLASMCDISK --size 733302 --checksum adler32:55513942 --guid cb41a236-24dc-46f6-8e3e-619650cfa85b
/home/tmp/Panda_Pilot_18603_1269360323/bf69908a-7e8b-4fb9-a1cc-02ea74addf73_1.job.log.tgz
srm://dcsrm.usatlas.bnl.gov:8443/srm/managerv2?SFN=
/pnfs/usatlas.bnl.gov/MCDISK/testpanda/destDB/a01f4706-6c87-4ef5-9a34-a9b825011471_sub06194800/
testpanda.destDB.a01f4706-6c87-4ef5-9a34-a9b825011471/bf69908a-7e8b-4fb9-a1cc-02ea74addf73_1.job.log.tgz
```

Known errors

-> KeyError: 'hand02'

```
Traceback (most recent call last):
  File "/usr/lib/python2.4/logging/config.py", line 191, in fileConfig
    logger.addHandler(handlers[hand])
KeyError: 'hand02'
No handlers could be found for logger "gov-bnl-lsm"
```

The command will not fail due to this! It's just inconvenient. The cause of this message is a problem on python2.4 that is shipped with RedHat [bug#573782]. There is nothing we can do.

-> No handlers could be found for logger

```
No handlers could be found for logger "gov-bnl-lsm"
```

```
No handlers could be found for logger "root"
```

The command will not fail due to this! It's just inconvenient.

[Add Comment](#)